Product Datasheet

PCNA Rabbit mAb

Catalog No: #48728

Package Size: #48728-1 50ul #48728-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

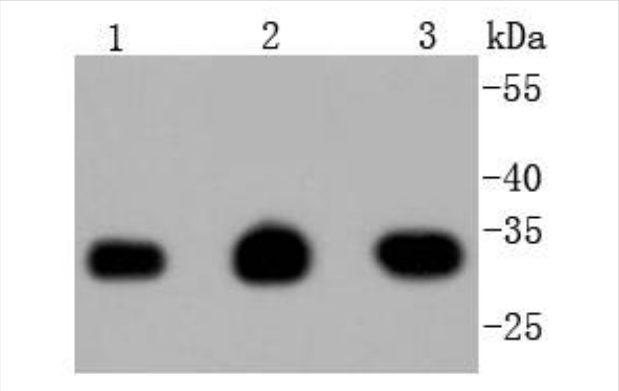
Description

Product Name	PCNA Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	SY12-07
Purification	ProA affinity purified
Applications	WB, ICC/IF, IHC, IP, FC
Species Reactivity	Human;Mouse;Rat
Immunogen Description	recombinant protein
Conjugates	Unconjugated
Other Names	ATLD2 antibody cb16 antibody Cyclin antibody DNA polymerase delta auxiliary protein antibody etID36690.10 antibody fa28e03 antibody fb36g03 antibody HGCN8729 antibody MGC8367 antibody Mutagen-sensitive 209 protein antibody OTTHUMP00000030189 antibody OTTHUMP00000030190 antibody PCNA antibody Pcna/cyclin antibody PCNA_HUMAN antibody PCNAR antibody Polymerase delta accessory protein antibody Proliferating cell nuclear antigen antibody wu:fa28e03 antibody wu:fb36g03 antibody
Accession No.	Swiss-Prot#:P12004
Calculated MW	29 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

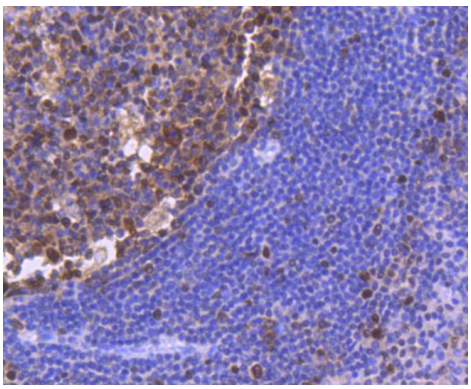
Application Details

WB: 1:1,000-5,000IHC: 1:100-1:500 ICC: 1:50-1:200FC: 1:50-1:100

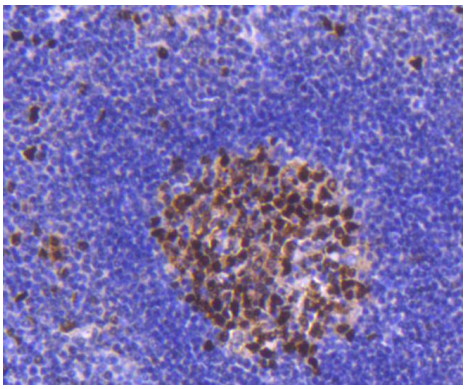
Images



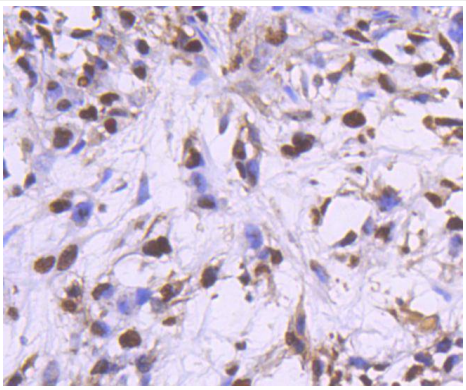
Western blot analysis of PCNA on different lysates using anti-PCNA antibody at 1/1,000 dilution. Positive control: Lane 1: Hela Lane 2: 293 Lane 3: A431



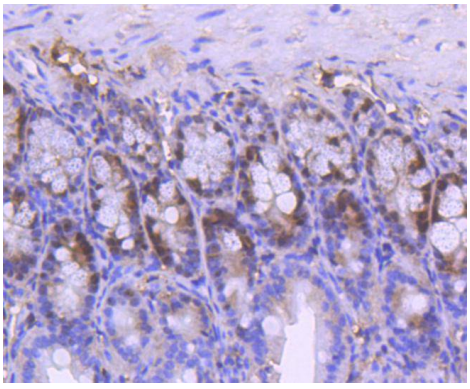
Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-PCNA antibody. Counter stained with hematoxylin.



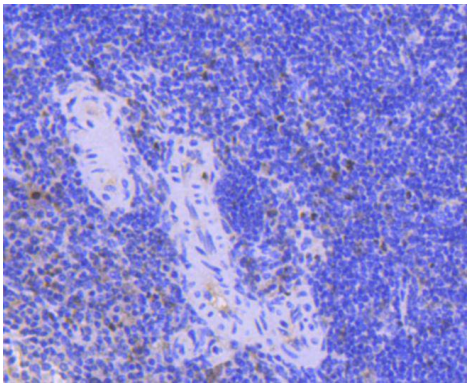
Immunohistochemical analysis of paraffin-embedded human spleen tissue using anti-PCNA antibody. Counter stained with hematoxylin.



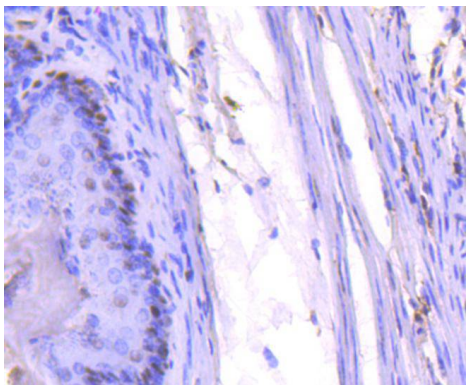
Immunohistochemical analysis of paraffin-embedded human breast carcinama tissue using anti-PCNA antibody. Counter stained with hematoxylin.



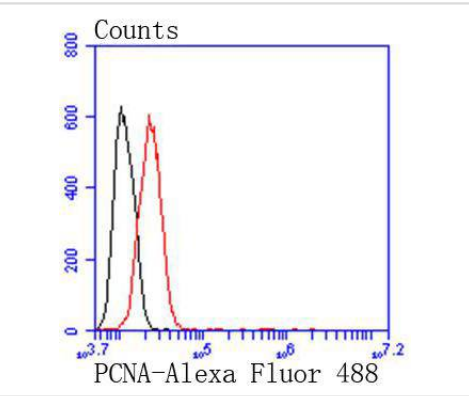
Immunohistochemical analysis of paraffin-embedded mouse colon tissue using anti-PCNA antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded mouse spleen tissue using anti-PCNA antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded mouse stomach tissue using anti-PCNA antibody. Counter stained with hematoxylin.



Flow cytometric analysis of Hela cells with PCNA antibody at 1/50 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.

Background

The proliferating cell nuclear antigen (PCNA), a protein synthesized in early G1 and S phases of the cell cycle, functions in cell cycle progression, DNA replication and DNA repair. In early S phase, PCNA exhibits granular distribution and is absent from the nucleoli; however, in late S phase, it relocates to the nucleoli. PCNA exists in two basic forms: one involved in ongoing DNA replication, which localizes specifically to the nucleus, and a second, soluble form, not implicated in constant synthesis. Interestingly, the latter form degrades in the presence of organic solvents, rendering it undetectable by histological methods in tissues using organic fixatives, and thus also providing a method of visualizing only the synthesizing form.

References

1. Sajadian SO et al. Induction of active demethylation and 5hmC formation by 5-azacytidine is TET2 dependent and suggests new treatment strategies against hepatocellular carcinoma. Clin Epigenetics 7:98 (2015). 2. Zhan W et al. TRIM59 Promotes the Proliferation and Migration of Non-Small Cell Lung Cancer Cells by Upregulating Cell Cycle Related Proteins. PLoS One 10:e0142596 (2015).

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PMID:37495624

Note: This product is for in vitro research use only and is not intended for use in humans or animals.